

# Notice of Allowability

Application No.

09/879,722

Examiner

Perez M. Angelica

Applicant(s)

ICHIKAWA, YASUFUMI

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2618

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to A.F. amendment filed on 8/2/2007.
2. ☒ The allowed claim(s) is/are 25-38.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All b) ☐ Some\* c) ☐ None of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

## Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_\_
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

## DETAILED ACTION

### *Drawings*

1. The drawings filed on 6/12/2001 have been reviewed and are accepted by the Examiner.

### *Allowable Subject Matter*

2. Claims 25-38 are allowed.

### *Reasons for Allowance*

3. Regarding claim 25, the prior art of record teaches of a transmission power control method for controlling the power to transmit to a distant party, comprising the steps of: controlling an adjustable digital-to-analog converter for generating an analog baseband signal to be input to a modulator for frequency-converting a transmission signal to a signal in an IF band; controlling first and second variable power amplifiers, connected in series with each other, for variably amplifying the transmission signal modulated by the modulator; and a detection step of detecting a state of at least one of a local station and a distant station.

The prior art of record does not specifically teach of and a modification step of **modifying control ratios of the first and the second variable power amplifiers according to the detected state**; wherein at least one of series and parallel control in a control range is made in the controlling the first and second variable power amplifiers step, and wherein, **in the series control, the control ratio of the first variable amplifier is set to 1 and the control ratio of the second variable amplifier is set to**

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**O, and wherein, in the parallel control, a sum of the control ratios of the first and second variable amplifiers is set to 1.**

Regarding claim 29, the prior art of record teaches of a transmission power control method for controlling a power to transmit to a distant party, comprising the steps of: controlling first and second voltage controllers; controlling, using said first and second voltage controllers, a power amplifier for amplifying a transmission signal; the first voltage controller controlling a collector voltage of the power amplifier, the second voltage controller controlling a base voltage of the power amplifier; a detection step of detecting a state of at least one of a local station and a distant station.

The prior art of record does not specifically teach of a modification step of **modifying control ratios of the first and the second voltage controllers according to the detected state**; wherein at least one of series and parallel control in a control range is made in the voltage controller controlling step, wherein, **in the series control, the control ratio of one of the voltage amplifiers controllers is set to 1 and the control ratio of the other is set 0, and wherein, in the parallel control, a sum of the control ratios of the first and second voltage controllers is set to 1.**

Regarding claim 32, the prior art of record teaches of a radio communication apparatus comprising: a first variable power amplifier; a second variable power amplifier connected in series with the first variable power amplifier; an adjustable digital-to-analog converter; a modulator; means for controlling the adjustable digital-to-analog converter for generating an analog baseband signal to be input to the modulator for frequency-converting a transmission signal to a signal in an IF band; means for controlling first and

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second variable power amplifiers for variably amplifying the transmission signal modulated by the modulator; a detection unit for detecting a state of at least one of a local station and a distant station.

The prior art of record does not specifically teach of means for **modifying control ratios of the first and the second variable power amplifiers according to the detected state**, where at least one of series and parallel control in a control range is utilized by the means for controlling the first and second variable power amplifiers, and where, **in the series control, the control ratio of the first variable amplifier is set to 1 and the control ratio of the second variable amplifier is set to 0, and wherein, in the parallel control, a sum of the control ratios of the first and second variable amplifiers is set to 1.**

Regarding claim 36 the prior art of record teaches of a radio communication apparatus comprising: a first voltage controller; a second voltage controller; means for controlling said first and said second voltage controllers; a power amplifier for amplifying a transmission signal; means for controlling, using said first and second voltage controllers, said power amplifier, where the first voltage controller controls a collector voltage of the power amplifier and the second voltage controller controls a base voltage of the power amplifier; a detection unit for detecting a state of at least one of a local station and a distant station.

The prior art of record does not specifically teach of means for **modifying control ratios of the first and the second voltage controllers according to the detected state**; wherein at least one of series and parallel control in a control range is

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made in the means for controlling said first and said second voltage controllers, wherein, **in the series control, the control ratio of one of the voltage controllers is set to 1 and the control ratio of the other is set 0, and wherein, in the parallel control, a sum of the control ratios of the first and second voltage controllers is set to 1.**

4. Claims 26-28, 30-31, 33-35 and 37-38 depend on allowed claims 25, 29, 32 and 36; therefore, the examiner gives the same reasons for allowance as set forth above.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

***Conclusion***

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Angelica Perez whose telephone number is 571-272-7885. The examiner can normally be reached on 6:00 a.m. - 2:30 p.m., Monday - Friday.

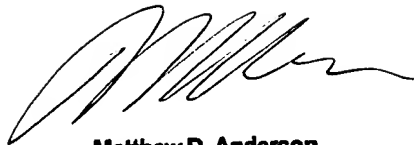
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew D. Anderson can be reached on (571) 272-4177. The fax phone numbers for the organization where this application or proceeding is assigned are 571-273-8300 for regular communications and for After Final communications.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either the PAIR or Public PAIR. Status information for unpublished applications is available through the Private PAIR only. For more information about the pair system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). Information regarding Patent Application Information Retrieval (PAIR) system can be found at 866-217-9197 (toll-free).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the TC 2600's customer service number is 703-306-0377.



Angelica Perez  
Examiner



**Matthew D. Anderson**  
Supervisory Patent Examiner

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August 13, 2007